10/535443 JC06 Rec'd PCT/PTO 19 MAY 2005

EX03-098C-US patentin.txt SEQUENCE LISTING

<110>	EXELIXIS, INC.					
<120>	FLJ10607 AS MOD	DIFIER OF TH	IE AXIN PATH	WAY AND MET	HODS OF USE	
<130>	EX03-098C-US					
<150> <151>	us 60/436,965 2002-12-30					
<160>	5					
<170>	PatentIn version	on 3.2				
<210> <211> <212> <213>	1 3966 DNA Homo sapiens					
<400> gggcggg	1 gtgg cgccttggcc	tccgcctccg	ctcgcctgcg	cgcggccctg	cgtgaggggg	60
cagagg	cgag gtggaggcgt	tggcgctgcc	acgtctgggc	cgcggttccc	aactgtggcg	120
cgggcgg	gtgg aggaggaggt	ggggctggcg	ctgaagccgg	atccggatcc	ggtgctgtgc	180
acactg	gtgg gggagagtcc	gacgcgcctg	gctaggagcg	ccgaccgcag	ggcctctacg	240
gttcctg	gtaa ccagcacagt	gcctgattca	tgaattaaag	accttactag	aaaaatgaaa	300
cctgat	gaaa ctcctatgtt	tgacccaagt	ctactcaaag	aagtggactg	gagtcagaat	360
acagcta	acat tttctccagc	catttcccca	acacatcctg	gagaaggctt	ggttttgagg	420
cctctt	tgta ctgctgactt	aaatagaggt	tttttaagg	tattgggtca	gctaacagag	480
actgga	gttg tcagccctga	acaatttatg	aaatcttttg	agcatatgaa	gaaatctggg	540
gattat	tatg ttacagttgt	agaagatgtg	actctaggac	agattgttgc	tacggcaact	600
ctgatta	atag aacataaatt	catccattcc	tgtgctaaga	gaggaagagt	agaagatgtt	660
gttgtta	agtg atgaatgcag	aggaaagcag	cttggcaaat	tgttattatc	aacccttact	720
ttgcta	agca agaaactgaa	ctgttacaag	attacccttg	aatgtctacc	acaaaatgtt	780
ggtttc	tata aaaagtttgg	atatactgta	tctgaagaaa	actacatgtg	tcggaggttt	840
ctaaag	taaa aatcttgtaa	gaaaattgtc	aaaggggcta	atgctacaag	gctacactct	900
tcctag	agtt gaaatatttt	gttgctgcag	ccgagtgacc	tccataaata	ctggactgaa	960
aaaaca [.]	ttgt aatactacaa	gtataatgac	atttagaaga	ttactttggg	ctggtgggac	1020
atgctg	tgaa tttagattac	aaatgaatat	tataaagggg	atgatttta	accaaaggaa	1080
tatatt	ttta acttgaatct	tttcttgcat	tgtattttc	taaaagtttg	gcttcctttc	1140
ttggta	gtca agagtatggg	taataaggag	ttatatgtct	gctatctgtg	ttgctcattt	1200
aaaaaa	agta tacattgaat	aaggctgttt	atcacatgca	taaaattaaa	tatttttgtt	1260

tcaaagaaac	atctcaatac	acttaggggt	gtattgtttc	ccacatatta	agtcagggtg	1320
gataaattag	ttattataac	taaacatagt	atagtccaac	attcgttgat	cccaatacag	1380
gcaaacaacc	tggtcaacct	tttgaagtag	aagaaatgaa	aattacttga	caagattaaa	1440
agtaaaacaa	tttaaatgtt	ttactgaaag	tttatatagt	atagtctatg	tagataaaaa	1500
gtaccacttg	tcttttctgt	gaattatgac	tattcatttg	ttaaaaatac	ctaagagcaa	1560
ttatagtggg	acatctaagg	tcctctgtaa	acagtgaatt	agcaaacctc	agcctatgtg	1620
tttctaccct	gattttttc	ttttcatggg	tatctgaagc	ctctaagttt	tttcaaaaat	1680
ggagtatcac	aaaattgagt	gaaacacaat	acttaatgta	ttgtactaga	ttgccaaatt	1740
cataaaatgt	taatggaagc	tttttgatgt	gattataatg	gcactattct	ggtcattatc	1800
ctattttgat	tttatttaat	tttttaaagt	tgaagaatta	aatattttaa	tggttctaat	1860
cttttgcatt	ccatgttgca	ttaaacctgt	ttatatgagt	agtcttctgt	tagaatcaca	1920
tctgtgcttt	tcttgagtct	gctgttgaac	tattagatta	agtcataatt	cataaaattt	1980
tagtttaatg	tgctctttgt	aaaatgaaat	tgtaaagaaa	ataccagtgt	ttctcatccc	2040
attgactcac	accacgtcat	ctggattttg	gatttccctc	catgcagcca	gctatagttg	2100
gctttccaaa	acaacagaaa	tccttcacca	atagagtgca	ctacttacct	gcttatagcc	2160
tatacagacg	aactgatctg	tccttcgtga	aacgcaacaa	agctagttct	gtcttttcag	2220
aagtcctaca	accttgacaa	agagtagttt	tatcaggtaa	atcctggtaa	ttaaaaacgc	2280
atgttttaa	aaattagcct	ggtaaggccg	ggtgcagtgg	ctcacgcctg	taatcccagc	2340
actttgggag	gctgaggtgg	gcagatcaca	aggtcaggag	tttgagacca	gcctgaccaa	2400
aatggtgaaa	ccctgtctct	actaaaaaaa	agaaaaatta	gccagacgtg	gtggcatgcg	2460
cctgtaatcc	cagctactca	ggaagctgag	gcgagagaat	cgcttgaacc	cgggaggcaa	2520
aggttgcagt	gagctgagat	cacaccactg	cactccagcc	tggcgacaga	gagagactcc	2580
atctcaaaac	aaaacaaaaa	aaattagcct	acttaaaggc	acaactaaat	gctttattac	2640
ctttcttacc	actgaacaat	ttgaggtaaa	atcattcaca	aggttggcac	ttcagtaaat	2700
ccctttaaat	agtgttccta	agatatctct	taaatcctcc	cataggaaat	agaattacag	2760
gtaaggtaca	ccatacaaaa	attgtgtcat	tgaggacaat	ggtgatctgt	aattttagtt	2820
gagtatgttt	atgatttttg	aagccatatg	gtgagtaaat	gtaaatatga	aaaaagtgct	2880
acataaaaca	cttcttaaac	ttttttttt	taaaaactgc	tccttgtgga	gcaggactac	2940
cccataggca	gtgtacccac	aatagatagc	cttttgttgt	tgttgttgtt	gagacaaggt	3000
ctcgctgttg	cccaggctag	agcgcagggg	cacaatcacc	acacactgcc	gcttcaatct	3060
cctgggctca	aatgatcctt	ccacctcagc	ctcccatgtg	gctgggacta	taggtgcatg	3120
ccaccacacc	cagctaatta	aaaaaatttt	ttgtgtggag Page	tctatgttgc 2	ccaggctggt	3180

aggtgcgagc cactgcacct ggcccacatt ttttaaagag acactgccc actccatcac 33 ccaggctgga gtccagtggt gtgatcatag ctcactgcat cctccagttc ctgggttcaa 36 gccatccctc ctgcctcagc ctccccagta gctggaacta caggtgtgtg ccatcacacc 34 tggctttaca tttttctgtg gggtcttact atattgccca agccggtctc aaactcctga 35 gctaagtga tccttcgcct cagcctccag agtatctggg attacatatg tcggctaccg 35 tgtctggccg ttcacactct tggccactat ttgcttgtga aaaggtataa tgaggtggta 36 cttatcattt ttactgtgtc tcatgttttg tatatttttg tttcatcac taagatgcac 36 tgtacacatct ttggccactat ttgcttgtga aaaggtataa tgaggtggta 37 ccttatcattt ttactgtgtc tcatgttttg tatatttttg tttcatcac taagatgcac 37 tgtacacatct ctgaaatctg gatatattat caatggttta tcatagtttt gttagcaata 37 cactgtcttt tagtggtgcc taaaataatg gtatagttgt gaggtgatct tagatttgat 37 gaagcacagt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat 37 tttttttttt taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg 37 attctctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg 38 atttt 32 2205 c212 DNA 2213 Homo sapiens 4200 2 ccgaccgc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg 38 aaacactgatg aaactcctat gtttgaccca agtctactca aagaagtgga cttgggtttt 32 agggcactgaa attacagcta catttccc agccattcc ccaacacac ctggagaagg cttggttttg 37 aggactggag ttgtcagcca agcatttct tagaacataa atcaccat tctggagaagg cttggttttg 37 agggcactcttt gtactgctga cttaaataga ggttttttta aggtattggg ctagccaca 38 aactcggagagattgt tgtagaagat gtgaactctag gacagattgt tgctacggca actcggatta tagaacataa atcaccat tcctggcta agaagaaga gtagaagat 42 agggggattatt atgtacagt tgagaagaa gtgactctag gacagattgt tgctaccgca actctgatta tagaacataa atcaccat tcctgtgcta agaagaagaa gtagaagaa gttgtgtttg atgagaagaact gaactgttac' aagaacacat agaactacat gtttgctaa gaaagaact gaactgttac' aagattacc ttggatgat acaccacaaat gtttgctaa gaaaaacct gaactgttac' aagattacc ttgaatgcta aagaacacat gtttctaaag aaaaactcttg tagaaaaat gtcaagaaga gaactgtac aagatgatacc ttgaacacaa acccctcaaaaat ttgaaaaactt ttgataacaa ttgaaaaat gtcaaaacaa aactaccat ttgaaaaacat ttgaaaaacat ttgaaaaat ttgaaaaatt gtcaaaaagag agacttcaaa agactaccaa tcctcaaaa ttgaac			ctcttaactc
ccaggctgga gtccagtggt gtgatcatag ctcactgcat cctccagttc ctgggttcaa 3gccatccctc ctgcctcagc ctccccagta gctggaacta caggtgtgtg ccatcacacc 34 tggctttaca ttttctgtg gggtcttact atattgccca agccggtct aaactcctga 3gccaagtga tcctctgcct cagcctccag agtatctggg attacatag tcgggctaccg 3gtctggcgcg ttcacatctt tggccactat ttgcttgtga aaaggtataa tgagggggta 3gctctacattt ttactgtgct ctatgtttg tatattttg tttcatcaac taagatgcac 3gaaccactt ttgatgctgc taaaataaggggta 3gaagaaggggaagaagaaggggaagaaggaagaagaaactggaagaagaactggaagaagaactggaagaagaaactggaagaagaactggaggaagaagaagaactggaggagaagaagaactggaggagaagaagaactggaggagaagaagaactggaggagaagaagaactggaggaagaagaaacttggaaaaaacttggaaaaaacttggaaaaaacttggaaaaaacttggaagaagaaactggagaagaagaaaccacacccttgaaacccacacacccaaacacccaaaaccccaaaaccccaaaa	agc cactgcacct ggcccacatt ttttaaagag acactgtccc actccatcac 3300	t	
gccatccctc ctgcctcagc ctcccagta gctggaacta caggtgtgtg ccatcacacc dtggcttraca ttttctgtg gggtcttact atattgcca agccggtct aaactcctga gctgaagtag tcctctgcct cagcctccag agtactggg attacatatg tcggctaccg dtgcttggccg ttcacatctt tggccactat ttgcttgtga aaaggtataa tgaggtggta cttacattt ttactgtgtc tcatgttttg tatatttttg tttcatcaac taaggtggat tgtacacattt tggccactat tggcttgtag aaaggtataa tgaggtggta cttacattt ttactgtgtc tcatgttttg tatatttttg tttcatcaac taaggatgcac tgaacacttt tagtgggtgc taaaataatg gtatagttg gaggtgatct tagatttgat gaagcacagt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat tttttttttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg attcttctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg aatttg atttttttttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg attctctcac ttccaactcc aaacttgctc aactaatcct taaaaaataaa cttgagctgg aatttg acactgaga cgccgaccgc agggcctcta cggaccttac tagaaaaatg aaacctgatg aaacctcata gtttgaccca agtctactca aagaagtgga ctggagtcag aaacctgatg aaacctcata gtttgaccca agtctactca aagaagtgga ctggagtcag aaacactgatg aaacctcata gtttgaccca agtctactca aagaagtgga ctggagtcag aaacactgagag ttgccagccc tgaacaattt atgaaacctt ttgagcatat gaagaaaact gaggggattatt atgttacagt tgtagaaga gtggactctag gacagattgt tgccagcca acctctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaga cagcttggca aattgttat atcaaccctt accttgctaa gcaagaaact gaacgaaaact gaacgattacc aagaataccc ttgaatgtta accacaaaat gttgttttta gtgatgaatg cagaggaaag cagcttggca aattgttat atcaaccctt accttgctaa gcaagaaact gaacgaaaact gaacgattacc tcctgtgca aattgttat atcaaccctt accttgctaa gaaaaaact ggaacgaaaact ggaacgaaaact gaacgaaaact gaacgaaaact gaacgaaaact gaacaaaact ggaacaaact ggaacaaact gtaacaaaaa accacaaaaaca gttggttct ataaaaaagt ttggaagaaat tttgttgctg cagccgagtg acctccaaa aacctccaaaaaccttcccaaaaaacat tgaaaaaacat tttgttgctg cagccgagtg acctccaaaa aacctccaaaaaccttcccaaaaaacat ttttcccaaagaaaaccaat tttgttgctg cagccgagtg acctccaaaa aacctccaaaaacctccaaaaaacat tgaaaaaacat taacaaaagaa tataaaaaaagaacattaaaaaagaacatgaa		c cactgcacct	aggtgcgagc
tggcttraca ttttctgtg gggtcttact atattgccca agccggtct aaactcctga 34 gctcaagtga tcctctgcct cagcctccag agtatctggg attacatatg tcggctaccg tgcttggccg ttcacatctt tggccactat ttgcttgtga aaaggtataa tgaggtggta 36 cttatcattt ttactgtgtc tcatgttttg tatatttttg tttcatcaac taagatgcac 36 tgtacacatct ctgaaatctg gatatattat caatggttta tcatagtttt gttagcaata 37 cactgtcttt tagtggtgcc taaaataatg gtatagttg gaggtgatct tagatttgat 38 gaagcacagt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat 38 tttttttttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg 39 attctctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg aatttg 39 atttg 39 attg	gga gtccagtggt gtgatcatag ctcactgcat cctccagttc ctgggttcaa 3360	a gtccagtggt	ccaggctgga
gctcaagtga tcctctgcct cagcctccag agtatctggg attacatatg tcggctaccg tgctcgccg ttcacatctt tggccactat ttgcttgtga aaaggtataa tgaggtggta 36 cttatcattt ttactgtgtc tcatgtttg tatattttg tttcatcaac taagatgcac tgaacatct ctgaaatctg gatatattat caatggtta tcatagtttt gttagcaata 37 cactgtcttt tagtggtgcc taaaataatg gtatagttg gaggtgatct tagatttgat 37 gaagcacagt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat 38 tttttttttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg 39 attctctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg aatttg 39 c212	ctc ctgcctcagc ctccccagta gctggaacta caggtgtgtg ccatcacacc 3420	c ctgcctcagc	gccatccctc
tgtctggccg ttcacatctt tggccactat ttgcttgtga aaaggataa tgaggtggta 36 cttatcattt ttactgtgtc tcatgtttg tatatttttg tttcatcaac taaggatgac tgaacatct ctgaaatctg gatatattat caatggtta tcatagtttt gttagcaata 37 cactgtcttt tagtggtgcc taaaataatg gtatagttg gaggtgatct tagatttgat 38 gaagcacagt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat 38 tttttttttg taatgactga aagctgtct gtggatgacc taccctttcc tttaaacacg 39 attctctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg aatttg 39 attttg 39 attttg 39 attttg 39 attttg 39 attttg 39 aactagag 39 aacttgg 39 aactagag 39 actgagag 39 actgag 39 actcgag 39 actcgatta 39 actctgatta 39 actgag 39 actcgag 39 acttgag 30 acttgag 39 acttccag 39 acttccag 39 acttgag 39 acttccag 39 acttccag 39 acttgag 30 acttgag 30 acttccag 3	aca tttttctgtg gggtcttact atattgccca agccggtctc aaactcctga 3480	a tttttctgtg	tggctttaca
cttatcattt ttactgtgtc tcatgttttg tatatttttg tttcatcaac taagatgcac 36 tgtaacatct ctgaaatctg gatatattat caatggttta tcatagtttt gttagcaata 37 cactgtcttt tagtggtgcc taaaataatg gtatagttgt gaggtgatct tagatttgat 37 gaagcacagt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat 38 tttttttttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg 39 attctctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg 39 aatttg 39 <2210 > 2 <211 > 2205 <212 > DNA <213 > Homo sapiens <400 > 2 ccgacgcgcc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg 39 aatacagcta catttctcc agccattcc ccaacacatc ctggagaagg cttggttttg 39 aatacagcta cattttctcc agccattcc ccaacacatc ctggagaagg cttggttttg 39 aaggactggag ttgtcagccc tgaacaatt atgaaatctt ttgagcatat gaagaaatct 39 gagactggag ttgtcagccc tgaacaatt atgaaatctt ttgagcatat gaagaaatct 39 ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca 39 actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaaagat 39 gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttat atcaaccctt 30 actttgctaa gcaagaaact gaactgttac aagattgca aactgttat atcaacacat 30 gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttat atcaaccctt 30 actttgctaa gcaagaaact gaactgttac aagattacc ttgaatgtct accacaaaat 30 gttggtttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac 30 tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact 30 gaaaaaacat tgtaatacta caagtataat gacatttaga agattactt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	tga tcctctgcct cagcctccag agtatctggg attacatatg tcggctaccg 3540	a tcctctgcct	gctcaagtga
tgtaacatct ctgaaatctg gatatattat caatggttta tcatagtttt gttagcaata 37 cactgtcttt tagtggtgcc taaaataatg gtatagttgt gaggtgatct tagatttgat 37 gaagcacagt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat 38 tttttttttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg 39 attctctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg 39 aatttg 39 <210> 2 211> 2205 <211> 205 <212> DNA <213> Homo sapiens <400> 2 ccgacgcgcc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg 39 aatacagcta cattttctcc agccattcc ccaacacatc ctggagaagg cttggtttg 39 aatacagcta cattttctcc agccattcc ccaacacatc ctggagaagg cttggttttg 39 aggactggag ttgtcagccc tgaacaatt atgaaatctt ttgagcatat gaagaaatct 39 gagactggag ttgtcagccc tgaacaatt atgaaatctt ttgagcatat gaagaaatct 39 ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca 39 actctgatta tagaacataa attcatccat tcctgtgcta agagagaag agtagaagat 39 gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttat atcaaccctt 39 actttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat 30 gttggtttct ataaaaagt tggatatact gtatctgaag aaaactacat gtgtcggagg 50 ttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac 50 tctcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact 30 gacaagaacact tgtaatacta caagtataat gacatttaga agattactt gggctggtgg 30 gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	ccg ttcacatctt tggccactat ttgcttgtga aaaggtataa tgaggtggta 3600	g ttcacatctt	tgtctggccg
cactgtcttt tagtggtgcc taaaataatg gtatagttgt gaggtgatct tagatttgat 37 gaagcacagt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat 38 ttttttttttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg 39 attctctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg 39 aatttg 39 <210> 2 2211> 2205 <212> DNA <213> Homo sapiens <400> 2 ccgacggcc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg 39 aatacagcta catttctcc agccattcc ccaacact ctggagagg cttggtttg 31 aatacagcta catttctcc agccattcc ccaacact ctggagaagg cttggtttg 31 aggcctcttt gtactgctga cttaaataga ggtttttta aggtattggg tcagctaaca 32 gagactggag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct 32 ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca 32 actctgatta tagaacataa attcatccat tcctgtgcta agagagaaga agtagaagat 32 gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt 32 actttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaat 32 gttggtttct ataaaaagtt tggatatact gtactgaag aaaactacat gtgtcggagg 42 ttctaaagt aaaaatcttg taagaaaatt gtcaaagggg cttaatgcta aaggctacac 42 gttggtttct ataaaaagtt tggatatact gtactgaag aaaactacat gtgtcggagg 42 ttctcaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctaa aaggctacac 42 gaaaaaacat tgtaatacta caagtataat gacattaga agattacttt gggctggtgg 32 gacatgctgt gaatttagat tacaaatgaa tattataaaa gggatgattt ttaaccaaag 32 gacatgctgt gaatttagat tacaaatgaa tattataaaa gggatgattt ttaaccaaag 32 gacatgctgt gaatttagat tacaaatgaa tattataaaa gggatgattt ttaaccaaag 32 gacatgctgt gaatttagat tacaaatgaa tattataaaag gggatgattt ttaaccaaag 32 gacatgctgt gaatttagat tacaaatgaa tattataaaag gggatgattt ttaaccaaag 32 gacatgctgt gaatttagat tacaaatgaa tattataaaag gggatgattt ttaaccaaag	ttt ttactgtgtc tcatgttttg tatatttttg tttcatcaac taagatgcac 366	t ttactgtgtc	cttatcattt
gaagcacagt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat tttttttttt	tct ctgaaatctg gatatattat caatggttta tcatagtttt gttagcaata 3720	t ctgaaatctg	tgtaacatct
ttttttttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg attctctcac ttccaactcc aaacttgctc aactaatcct taaaaaataaa cttgagctgg aatttg <210 > 2	ttt tagtggtgcc taaaataatg gtatagttgt gaggtgatct tagatttgat 378	t tagtggtgcc	cactgtcttt
attctctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg aatttg <210> 2 <211> 2205 <212> DNA <213> Homo sapiens <400> 2 ccgacgcgcc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg aaacctgatg aaactcctat gtttgaccca agtctactca aagaagtgga ctggagtcag aatacagcta cattttctcc agccatttcc ccaacacatc ctggagaagg cttggtttg aggcctcttt gtactgctga cttaaataga ggtttttta aggtattggg tcagctaaca gagactggag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt acttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat gttggtttct ataaaaagtt tggatatact gtactgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaatact caagtataat gcacttaga agattacttt gggctggtgg gacatgctgt gaatttagaat tacaaatgaa tattataaag gggatgattt ttaaccaaag	agt atgcaggtag gcctaatggg ggaagatggt aatataaaag caagaagtat 384	t atgcaggtag	gaagcacagt
aatttg <pre> <210> 2 <211> 2205 <212> DNA <213> Homo sapiens </pre> <pre> <400> 2 ccgacgcgcc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg aaacctgatg aaactcctat gtttgaccca agtctactca aagaagtgga ctggagtcag aatacagcta catttctcc agccattcc ccaacacatc ctggagaagg cttggttttg aggcctcttt gtactgctga cttaaataga ggtttttta aggtattggg tcagctaaca gagactggag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt acttgctaa gcaagaaact gaactgttac'aagattaccc ttgaatgtct accacaaaat gttggttct ataaaaagtt tggatatact gtactgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt tgggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag</pre>	ttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg 390	g taatgactga	ttttttttg
<pre><210> 2 <211> 2205 <212> DNA <213> Homo sapiens </pre> <pre><400> 2 ccgacgcgcc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg aaacctgatg aaactcctat gtttgaccca agtctactca aagaagtgga ctggagtcag aatacagcta cattttctcc agccatttcc ccaacacatc ctggagaagg cttggtttg aggcctcttt gtactgctga cttaaataga ggtttttta aggtattggg tcagctaaca gagactggag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt acttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat gttggttct ataaaaagtt tggataacc gtactgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt tgggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaaag gggatgattt ttaaccaaag</pre>	cac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg 396	c ttccaactcc	attctctcac
<211> 2205 <212> DNA <213> Homo sapiens <400> 2 ccgacgcgcc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg aaacctgatg aaactcctat gtttgaccca agtctactca aagaagtgga ctggagtcag aatacagcta catttccc agccattcc ccaacacatc ctggagaagg cttggttttg aggcctcttt gtactgctga cttaaataga ggtttttta aggtattggg tcagctaaca gagactggag ttgtcagccc tgaacaatt atgaaatctt ttgagcatat gaagaaatct ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca actctgatta tagaacataa attcatccat tcctgtgcta agagagagaa agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt actttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat gttggttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg ttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattactt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	396		aatttg
ccgacgccc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg aaacctgatg aaactcctat gtttgaccca agtctactca aagaagtgga ctggagtcag aatacagcta catttccc agccattcc ccaacacatc ctggagaagg cttggttttg aggcctcttt gtactgctga cttaaataga ggtttttta aggtattggg tcagctaaca gagactggag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt actttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat gttggtttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg ttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaaag gggatgattt ttaaccaaag	2205 DNA Homo sapiens	Α .	<211> 220 <212> DNA <213> Hom
aatacagcta catttcccc agccattcc ccaacacatc ctggagaagg cttggttttg aggcctcttt gtactgctga cttaaataga ggtttttta aggtattggg tcagctaaca gagactggag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt actttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgct accacaaaat gttggttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag		c tggctaggag	ccgacgcgcc
aggcctcttt gtactgctga cttaaataga ggtttttta aggtattggg tcagctaaca gagactggag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt actttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat gttggttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaacaagactggt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	atg aaactcctat gtttgaccca agtctactca aagaagtgga ctggagtcag 12	g aaactcctat	aaacctgatg
gagactggag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt acttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgct accacaaaat gttggttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaacagctgt gaatatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	cta cattttctcc agccatttcc ccaacacatc ctggagaagg cttggttttg ${f 18}$	a cattttctcc	aatacagcta
ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt acttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat gttggttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	ttt gtactgctga cttaaataga ggttttttta aggtattggg tcagctaaca 24	t gtactgctga	aggcctcttt
actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt acttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat gttggttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	gag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct 30	g ttgtcagccc	gagactggag
gttgttgtta gtgatgaatg cagaggaaag cagcttggca aattgttatt atcaaccctt actttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat gttggtttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag		t atgttacagt	ggggattatt
actttgctaa gcaagaaact gaactgttac aagattaccc ttgaatgtct accacaaaat gttggtttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag		a tagaacataa	actctgatta
gttggtttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag		a gtgatgaatg	gttgttgtta
tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	taa gcaagaaact gaactgttac'aagattaccc ttgaatgtct accacaaaat 54	a gcaagaaact	actttgctaa
tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	tct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg 60	t ataaaaagtt	gttggtttct
gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctggtgg gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag	agt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac 66	t aaaaatcttg	tttctaaagt
gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag 8		a gttgaaatat	tcttcctaga
gacacycege gaacecagae caeaaacyaa caeeaacyaa goon o		t tgtaatacta	gaaaaaacat
Paye 3	tgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag 84 Page 3	t gaatttagat	gacatgctgt

			•			
gaatatattt t	taacttgaa	tcttttcttg	cattgtattt	ttctaaaagt	ttggcttcct	900
ttcttggtag t	caagagtat	gggtaataag	gagttatatg	tctgctatct	gtgttgctca	960
tttaaaaaaa g	tatacattg	aataaggctg	tttatcacat	gcataaaatt	aaatatttt	1020
gtttcaaaga a	acatctcaa	tacacttagg	ggtgtattgt	ttcccacata	ttaagtcagg	1080
gtggataaat t	agttattat	aactaaacat	agtatagtcc	aacattcgtt	gatcccaata	1140
caggcaaaca a	cctggtcaa	ccttttgaag	tagaagaaat	gaaaattact	tgacaagatt	1200
aaaagtaaaa c	tatttaaat	gttttactga	aagtttatat	agtatagtct	atgtagataa	1260
aaagtaccac t	tgtcttttc	tgtgaattat	gactattcat	ttgttaaaaa	tacctaagag	1320
caattatagt g	ggacatcta	aggtcctctg	taaacagtga	attagcaaac	ctcagcctat	1380
gtgtttctac c	ctgattttt	ttcttttcat	gggtatctga	agcctctaag	ttttttcaaa	1440
aatggagtat c	acaaaattg	agtgaaacac	aatacttaat	gtattgtact	agattgccaa	1500
attcataaaa t	gttaatgga	agctttttga	tgtgattata	atggcactat	tctggtcatt	1560
atcctatttt g	attttattt	aatttttaa	agttgaagaa	ttaaatattt	taatggttct	1620
aatcttttgc a	ittccatgtt	gcattaaacc	tgtttatatg	agtagtcttc	tgttagaatc	1680
acatctgtgc t	tttcttgag	tctgctgttg	aactattaga	ttaagtcata	attcataaaa	1740
ttttagttta a	tgtgctctt	tgtaaaatga	aattgtaaag	aaaataccag	tgtttctcat	1800
cccattgact c	acaccacgt	catctggatt	ttggatttcc	ctccatgcag	ccagctatag	1860
ttggctttcc a	aaacaacag	aaatccttca	ccaatagagt	gcactactta	cctgcttata	1920
gcctatacag a	acgaactgat	ctgtccttcg	tgaaacgcaa	caaagctagt	tctgtctttt	1980
cagaagtcct a	acaaccttga	caaagagtag	ttttatcagg	taaatcctgg	taattaaaaa	2040
cgcatgtttt t	aaaaattag	cctggtaagg	ccgggtgcag	tggctcacgc	ctgtaatccc	2100
agcactttgg g	gaggctgagg	tgggcagatc	acaaggtcag	gagtttgaga	ccagcctgac	2160
caaaatggtg a	aaccctgtc	tctactaaaa	aaaaaaaaa	aaaaa		2205
<210> 3						
<211> 2205 <212> DNA <213> Homo	sapiens					
<400> 3						60
ccgacgcgcc t						60
aaacctgatg a						120
aatacagcta c						180
aggcctcttt g						240
gagactggag t	ttgtcagccc	tgaacaattt	atgaaatctt Page	ttgagcatat 4	gaagaaatct	300

ggggattatt	atgttacagt	tgtagaagat	gtgactctag	gacagattgt	tgctacggca	360
actctgatta	tagaacataa	attcatccat	tcctgtgcta	agagaggaag	agtagaagat	420
gttgttgtta	gtgatgaatg	cagaggaaag	cagcttggca	aattgttatt	atcaaccctt	480
actttgctaa	gcaagaaact	gaactgttac	aagattaccc	ttgaatgtct	accacaaaat	540
gttggtttct	ataaaaagtt	tggatatact	gtatctgaag	aaaactacat	gtgtcggagg	600
tttctaaagt	aaaaatcttg	taagaaaatt	gtcaaagggg	ctaatgctac	aaggctacac	660
tcttcctaga	gttgaaatat	tttgttgctg	cagccgagtg	acctccataa	atactggact	720
gaaaaaacat	tgtaatacta	caagtataat	gacatttaga	agattacttt	gggctggtgg	780
gacatgctgt	gaatttagat	tacaaatgaa	tattataaag	gggatgattt	ttaaccaaag	840
gaatatattt	ttaacttgaa	tcttttcttg	cattgtattt	ttctaaaagt	ttggcttcct	900
ttcttggtag	tcaagagtat	gggtaataag	gagttatatg	tctgctatct	gtgttgctca	960
tttaaaaaaa	gtatacattg	aataaggctg	tttatcacat	gcataaaatt	aaatatttt	1020
gtttcaaaga	aacatctcaa	tacacttagg	ggtgtattgt	ttcccacata	ttaagtcagg	1080
gtggataaat	tagttattat	aactaaacat	agtatagtcc	aacattcgtt	gatcccaata	1140
caggcaaaca	acctggtcaa	ccttttgaag	tagaagaaat	gaaaattact	tgacaagatt	1200
aaaagtaaaa	ctatttaaat	gttttactga	aagtttatat	agtatagtct	atgtagataa	1260
aaagtaccac	ttgtcttttc	tgtgaattat	gactattcat	ttgttaaaaa	tacctaagag	1320
caattatagt	gggacatcta	aggtcctctg	taaacagtga	attagcaaac	ctcagcctat	1380
gtgtttctac	cctgattttt	ttcttttcat	gggtatctga	agcctctaag	ttttttcaaa	1440
aatggagtat	cacaaaattg	agtgaaacac	aatacttaat	gtattgtact	agattgccaa	1500
attcataaaa	tgttaatgga	agctttttga	tgtgattata	atggcactat	tctggtcatt	1560
atcctatttt	gattttattt	aatttttaa	agttgaagaa	ttaaatattt	taatggttct	1620
aatcttttgc	attccatgtt	gcattaaacc	tgtttatatg	agtagtcttc	tgttagaatc	1680
acatctgtgc	ttttcttgag	tctgctgttg	aactattaga	ttaagtcata	attcataaaa	1740
ttttagttta	atgtgctctt	tgtaaaatga	aattgtaaag	aaaataccag	tgtttctcat	1800
cccattgact	cacaccacgt	catctggatt	ttggatttcc	ctccatgcag	ccagctatag	1860
ttggctttcc	aaaacaacag	aaatccttca	ccaatagagt	gcactactta	cctgcttata	1920
gcctatacag	acgaactgat	ctgtccttcg	tgaaacgcaa	caaagctagt	tctgtctttt	1980
cagaagtcct	acaaccttga	caaagagtag	ttttatcagg	taaatcctgg	taattaaaaa	2040
cgcatgtttt	taaaaattag	cctggtaagg	ccgggtgcag	tggctcacgc	ctgtaatccc	2100
agcactttgg	gaggctgagg	tgggcagatc	acaaggtcag	gagtttgaga	ccagcctgac	2160

```
<210>
        184
<211>
```

<212> PRT

Homo sapiens

<400>

Met Lys Pro Asp Glu Thr Pro Met Phe Asp Pro Ser Leu Leu Lys Glu
1 10 15

Val Asp Trp Ser Gln Asn Thr Ala Thr Phe Ser Pro Ala Ile Ser Pro 20 25 30

Thr His Pro Gly Glu Gly Leu Val Leu Arg Pro Leu Cys Thr Ala Asp 35 40 45

Leu Asn Arg Gly Phe Phe Lys Val Leu Gly Gln Leu Thr Glu Thr Gly 50 60

Val Val Ser Pro Glu Gln Phe Met Lys Ser Phe Glu His Met Lys Lys 65 70 75 80

Ser Gly Asp Tyr Tyr Val Thr Val Val Glu Asp Val Thr Leu Gly Gln
85
90
95

Ile Val Ala Thr Ala Thr Leu Ile Ile Glu His Lys Phe Ile His Ser 100 105 110

Cys Ala Lys Arg Gly Arg Val Glu Asp Val Val Ser Asp Glu Cys 115 120 125

Arg Gly Lys Gln Leu Gly Lys Leu Leu Ser Thr Leu Thr Leu Leu 130 140

Ser Lys Lys Leu Asn Cys Tyr Lys Ile Thr Leu Glu Cys Leu Pro Gln 145 150 155 160

Asn Val Gly Phe Tyr Lys Lys Phe Gly Tyr Thr Val Ser Glu Glu Asn 165 170 175

Tyr Met Cys Arg Arg Phe Leu Lys 180

5 184

<212> PRT Homo sapiens

Page 6

<400> 5

Met Lys Pro Asp Glu Thr Pro Met Phe Asp Pro Ser Leu Leu Lys Glu 10 15Val Asp Trp Ser Gln Asn Thr Ala Thr Phe Ser Pro Ala Ile Ser Pro 20 25 30 Thr His Pro Gly Glu Gly Leu Val Leu Arg Pro Leu Cys Thr Ala Asp 40 45Leu Asn Arg Gly Phe Phe Lys Val Leu Gly Gln Leu Thr Glu Thr Gly 50 55 60 val val Ser Pro Glu Gln Phe Met Lys Ser Phe Glu His Met Lys Lys 65 70 75 80 Ser Gly Asp Tyr Tyr Val Thr Val Val Glu Asp Val Thr Leu Gly Gln
85 90 95 Ile Val Ala Thr Ala Thr Leu Ile Ile Glu His Lys Phe Ile His Ser 100 105 110Cys Ala Lys Arg Gly Arg Val Glu Asp Val Val Val Ser Asp Glu Cys 115 120 125 Arg Gly Lys Gln Leu Gly Lys Leu Leu Leu Ser Thr Leu Thr Leu Leu 130 140 Ser Lys Lys Leu Asn Cys Tyr Lys Ile Thr Leu Glu Cys Leu Pro Gln 145 150 155 160 Asn Val Gly Phe Tyr Lys Lys Phe Gly Tyr Thr Val Ser Glu Glu Asn 165 170 175 Tyr Met Cys Arg Arg Phe Leu Lys 180